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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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KIMIKAZU FURUKAWA

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07/20/2004

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EXAMINER

AGDEPPA, HECTOR A

ART UNIT

PAPER NUMBER

2642

27

DATE MAILED: 07/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/046,677

Applicant(s)

FURUKAWA ET AL.

Examiner

Hector A. Agdeppa

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 26 April 2004.  
2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.  
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-6,8-13 and 15-20 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.  
6) ☒ Claim(s) 1-6,8-13 and 15-20 is/are rejected.  
7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.  
8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.  
10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)  
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.  
4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.  
5) ☐ Notice of Informal Patent Application (PTO-152)  
6) ☐ Other: \_\_\_\_\_.

### DETAILED ACTION

1. This action is in response to applicant's amendment filed on 4/26/04. Claims 1 – 6, 8 – 13, and 15 - 20 are now pending in the present application. **This action is made final.**

#### ***Claim Rejections - 35 USC § 103***

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

2. Claims 1 – 6, 8 – 13, and 15 - 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 5,898,756 (Manning et al.) in view of US 5,864,607 (Rosen et al.), US 3,569,634 (Amadasi et al.), and further in view of US 6,208,966 (Bulfer).

Regarding claims 1, 3 – 6, 8 - 10, 12, 13, and 15 – 20, Manning et al. teaches a system and associated method of a parallel connected dialing signal transmission inhibiting device for data transfer over a telephone link, wherein a device may be connected to a telephone for the purpose of inhibiting DTMF signals going through or suppressing those signals to a central office when those DTMF signals are indicative of controls or simply any signal that should not be passed on to the central office for processing. Manning et al. teaches that this could include the ability to control various household devices via a standard telephone unit or for programming of the actual phone as for example, speed dial, or even for the purpose of invoking special telephony features on that phone as for example, the above-mentioned speed dial. Manning et al. accomplishes this by teaching a device having therein a tone/signal generator 300 for

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generating tones to be sent to a central office if so needed, a DTMF/tone detector 210 for detecting when DTMF signals come either from the telephone network and represent an actual call or in the event when Manning et al.'s invention is used for voice messaging, controlling signals or whether they are control signals coming from the telephone unit, a microprocessor 400 and various electrical components for switching between having the telephone unit connected to a telephone network or not. (Abstract, Figs. 1 – 5B, Col. 1, line 53 – Col. 3, line 35, Col. 4, lines 14 – 50, Col. 7, line 10 – Col. 12, line 12)

What is not taught by Manning et al. is actual open circuiting of lines and blocking completely, command signals. Rather, Manning et al. teach attenuation of DTMF signals on lines via a switchable a.c. load. However, Amadasi et al. teaches a blocking device for open circuiting a telephone line from the telephone device to the telephone exchange/network. (Abstract, Fig. 1, Col. 1, lines 1 – 4, lines 20 – 42, and lines 57 – 60, Col. 2, lines 68 – 75, Col. 4, lines 6 – 11) The purpose and effect of attenuating a signal to the point that it cannot be recognized or picked up by the network is the same as open circuiting the telephone or data processing device

Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to have selected a method of open circuiting the telephone unit from the network, as taught by Amadasi et al., because either method effects the same result. Manning et al. teaches an invention whereby control/programming/.etc. signaling is inhibited so that a central office or in the case of voice mail usage, credit card calling, etc. (Col. 2, line 51 – Col. 3, line 46, Col. 7, line 43 – Col. 8, line 55). In any

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of these scenarios or even in normal telephone usage, or call waiting, or three-way calling, control signals or DTMF tones generated by mistakenly pressing a button, not meant to be dialing signals are passed along to a desired program or terminal or control device or are ignored, without being recognized or sent to a switch and on to a called party.

Moreover, see the Abstract of Manning et al. wherein it is taught that "...transmission-inhibiting device is disclosed which detects DTMF signals across tip and ring conductors of a telephone link and switches in an a.c. load that attenuates the dialing signals by at least 30dB. This prevents action in response to the DTMF signals by a central office servicing the telephone link, thereby allowing commands-data to be transmitted within the home telephone wiring." This is exactly the purpose of the claimed invention that Manning et al. reads on.

Also, note that command signals in Manning et al. are sensed by the dialing of for example, 2 ## signals followed by and digit. Therefore, if the 2 ## signals are not first detected by the system of Manning et al., then those DTMF signals are not blocked, which of course means that Manning et al. teaches selective inhibition only of DTMF signals.

Note that if a device is open circuited from a telephone exchange/network, any DTMF signals will be completely blocked from being transmitted or received.

Furthermore, the invention of Manning et al. is operable as a standard telephone system allowing incoming and outgoing calls. Even answering machines, which allow a caller to call their home telephone number to which an answering machine is connected

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to and listen to messages stored thereon, allow for commands to be transmitted to the telephone unit to control the machine. Therefore, because an incoming call is recognized as coming from the telephone network, Manning et al. as well, can recognize between network non-command DTMF signals and command-DTMF signals which do come from the network. Any standard telephone system is able to distinguish between such signals when certain dialing codes are used such as when a # signal is dialed to start the dialing string, whether from a unit or to a unit (e.g., from the network).

What is also not taught by Manning et al. is a data processing device being controlled or utilized via a telephone unit for telephony purposes.

However, Rosen et al. teaches communication with a computer using telephones, wherein a device allows DTMF tones from a telephone unit to be used to control telephony communication service or communication software resident on the computer, while allowing communication to and from a telephone network when need be. (Abstract, Figs. 1 – 5, Col. 1, line 26 – Col. 3, line 15, Col. 4, line 4 – Col. 12, line 48, Col. 16, line 1 – Col. 17, line 28)

Manning et al. and Rosen et al. both teach the use of a telephone for controlling a separate appliance, Manning et al. being limited to household appliances or the telephone unit itself. It would have been obvious to have extended the invention of Manning et al. to include controlling telephony services on a computer inasmuch as computers can be considered to be simply another separate household appliance, and as taught by Rosen et al., it is useful to be able to control computers via telephone units for ease of operation, for convenience, remote operation, etc. Albeit that the invention

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of Rosen et al. functions in a slightly different manner than the invention of Manning et al. with respect to how signals are inhibited and how communication is achieved between computer and telephone, i.e., Rosen et al. teaches the use of voice recognition/commands via the telephone unit whereas Manning et al. teaches the use of DTMF tones for control.

However, it is very well known in the art to convert voice into DTMF tones for specifically the purpose of using voice commands as taught by Bulfer. (Abstract, Fig. 1 and 2, Col. 1, line 13 – Col. 2, line 46, Col. 3, line 10 – Col. 5, line 24) Furthermore, it is very well known in the art that many systems already convert voice into DTMF signals as this was once the only way for voice recognition commands to be implemented and recognized by telephonic systems.

Also not taught explicitly by Manning et al. is codes differing between network sources and telephony units.

However, such would be at the very least obvious if not inherent in most any telecommunications system. Calls from the network will come in to check, for example, voice mail or check messages on an answering machine. In this common scenario, the system MUST be able to differentiate between signals from the network and those from the telephone unit, and such is usually done by having different predetermined values for various DTMF signals, or else the system becomes confused or has interfering feature interactions. Furthermore, Manning et al. contemplates differentiating between various DTMF signals and predefined code designations, as seen in the sections of Manning et al. mentioned above.

Regarding claims 2 and 11, it is inherent or would be very obvious to have a unit or two separate units, as the multiplication of units performing the same function has no inventive function, for the purpose of separating DTMF from voice signals as claimed in the present invention. One simple example is when one would not want to send voice to the microprocessor 400 of Manning et al. when programming it if it is not required. Obviously, only the DTMF control signals are necessary. Furthermore, if one were to send voice and DMTF tones simultaneously, a system would either never be able to detect what signals are for control or which actually comprise, for example, a conversation or if it could, it would be counter-intuitive to not separate them as DTMF and voice signals many times have different functions.

### ***Response to Arguments***

3. Applicant's arguments with respect to claims 1, 10, and 16 – 20 have been considered but are moot in view of the new ground(s) of rejection. Applicant's arguments regarding the open-circuiting have been addressed above in the rejection.

As to the Rosen reference, it was used merely to show that different types of devices for control via a telephone could be realized in a system. Applicant's argument regarding the manner in which Rosen accomplishes such a task is irrelevant as already discussed above and in the prior rejection.

As to applicant's argument regarding the Murray reference, note that the Murray reference is no longer relied upon in the rejection.



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As to applicant's argument regarding the Bulfur reference, in order to address the combination of Rosen and Manning, Bulfur was used because Rosen teaches using voice commands while Manning teaches using DMTF tones by way of pressing buttons on a telephone device.

***Conclusion***

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US 3,553,382 (Knox et al.), US 3,757,055 (McCann et al.), US 4,006,316 (Bolgiano), US 4,124,781 (Mellon), and US 4,425,480 (Lischin) all teach call or toll restrictive apparatuses that work with telephony devices and telephony lines, wherein some form of open-circuiting a telephone line to prevent DTMF tones from being transmitted and/or received..

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hector A. Agdeppa whose telephone number is 703-305-1844. The examiner can normally be reached on Mon thru Fri 9:30am - 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ahmad F. Matar can be reached on 703-305-4731. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-4700.

H.A.A.  
July 7, 2004

  
AHMAD F. MATAR  
SUPERVISORY PATENT EXAMINER  
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